



Substitute House Bill No. 6732

Public Act No. 05-211

***AN ACT CONCERNING OCCUPATIONAL LICENSES FOR
PERSONS ENGAGED IN SOLAR-RELATED WORK.***

Be it enacted by the Senate and House of Representatives in General Assembly convened:

Section 1. Section 20-330 of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October 1, 2005*):

As used in this chapter:

(1) "Contractor" means any person regularly offering to the general public services of such person or such person's employees in the field of electrical work, plumbing and piping work, solar work, heating, piping, cooling and sheet metal work, fire protection sprinkler systems work, elevator installation, repair and maintenance work, irrigation work, automotive glass work or flat glass work, as defined in this section;

(2) "Electrical work" means the installation, erection, maintenance, alteration or repair of any wire, cable, conduit, busway, raceway, support, insulator, conductor, appliance, apparatus, fixture or equipment that generates, transforms, transmits or uses electrical energy for light, heat, power or other purposes, but does not include low voltage wiring, not exceeding twenty-four volts, used within a

Substitute House Bill No. 6732

lawn sprinkler system;

(3) "Plumbing and piping work" means the installation, repair, replacement, alteration or maintenance of gas, water and associated fixtures, laboratory equipment, sanitary equipment, other than subsurface sewage disposal systems, fire prevention apparatus, all water systems for human usage, sewage treatment facilities and all associated fittings within a building and includes lateral storm and sanitary lines from buildings to the mains, process piping, swimming pools and pumping equipment, and includes making connections to back flow prevention devices, and includes low voltage wiring, not exceeding twenty-four volts, used within a lawn sprinkler system, but does not include (A) solar work, except for the repair of those portions of a solar hot water heating system that include the basic domestic hot water tank and the tie-in to the potable water system, (B) the installation, repair, replacement, alteration or maintenance of fire prevention apparatus within a structure, except for standpipes that are not connected to sprinkler systems, and (C) medical gas and vacuum systems work. For the purposes of this subdivision, "process piping" means piping or tubing that conveys liquid or gas that is used directly in the production of a product for human consumption;

[(4) "Solar work" means the installation, repair, replacement, alteration or maintenance of an active, passive or hybrid solar hot water heating system;]

(4) "Solar thermal work" means the installation, erection, repair, replacement, alteration, or maintenance of active, passive and hybrid solar systems that directly convert ambient energy into heat or convey, store or distribute such ambient energy;

(5) "Heating, piping and cooling work" means (A) the installation, repair, replacement, maintenance or alteration of any apparatus for piping, appliances, devices or accessories for heating systems,

Substitute House Bill No. 6732

including sheet metal work, and (B) the installation, repair, replacement, maintenance or alteration of air conditioning and refrigeration systems, boilers, including apparatus and piping for the generation or conveyance of steam and associated pumping equipment and process piping. Heating, piping and cooling work does not include solar work or medical gas and vacuum systems work. For the purposes of this subdivision, "process piping" means piping or tubing that conveys liquid or gas that is used directly in the production of a product for human consumption;

(6) "Apprentice" means any person registered with the Labor Department for the purpose of learning a skilled trade;

(7) "Elevator installation, repair and maintenance work" means the installation, erection, maintenance and repair of all types of elevators, dumb waiters, escalators, and moving walks and all mechanical equipment, fittings, associated piping and wiring from a source of supply brought to the equipment room by an unlimited electrical contractor for all types of machines used to hoist or convey persons or materials, but does not include temporary hoisting machines used for hoisting materials in connection with any construction job or project;

(8) "Elevator maintenance" means the lubrication, inspection and replacement of controls, hoistway and car parts;

(9) "Fire protection sprinkler systems work" means the layout, on-site fabrication, installation, alteration, maintenance or repair of any automatic or manual sprinkler system designed for the protection of the interior or exterior of a building or structure from fire, or any piping or tubing and appurtenances and equipment pertaining to such system including overhead and underground water mains, fire hydrants and hydrant mains, standpipes and hose connections to sprinkler systems, sprinkler tank heaters excluding electrical wiring, air lines and thermal systems used in connection with sprinkler and

Substitute House Bill No. 6732

alarm systems connected thereto, foam extinguishing systems or special hazard systems including water spray, foam, carbon dioxide or dry chemical systems, halon and other liquid or gas fire suppression systems, but does not include (A) any engineering design work connected with the layout of fire protection sprinkler systems, or (B) any work performed by employees of or contractors hired by a public water system, as defined in subsection (a) of section 25-33d;

(10) "State Fire Marshal" means the State Fire Marshal or any member of the Division of State Police to whom the Commissioner of Public Safety has delegated powers under section 29-291;

(11) "Journeyman sprinkler fitter" means a specialized pipe fitter craftsman, experienced and skilled in the installation, alteration, maintenance and repair of fire protection sprinkler systems;

(12) "Irrigation work" means making the connections to back flow prevention devices, and low voltage wiring, not exceeding twenty-four volts, used within a lawn sprinkler system;

(13) "Sheet metal work" means the installation, erection, replacement, repair or alteration of duct work systems, both ferrous and nonferrous;

(14) "Journeyman sheet metal worker" means an experienced craftsman skilled in the installation, erection, replacement, repair or alteration of duct work systems, both ferrous and nonferrous;

(15) "Automotive glass work" means installing, maintaining or repairing fixed glass in motor vehicles;

(16) "Flat glass work" means installing, maintaining or repairing glass in residential or commercial structures; [and]

(17) "Medical gas and vacuum systems work" means the work and

Substitute House Bill No. 6732

practice, materials, instrumentation and fixtures used in the construction, installation, alteration, extension, removal, repair, maintenance or renovation of gas and vacuum systems and equipment used solely to transport gases for medical purposes and to remove liquids, air-gases or solids from such systems;

(18) "Solar electricity work" means the installation, erection, repair, replacement, alteration, or maintenance of photovoltaic or wind generation equipment used to distribute or store ambient energy for heat, light, power or other purposes to a point immediately inside any structure or adjacent to an end use;

(19) "Active solar system" means a system that uses an external source of energy to power a motor-driven fan or pump to force the circulation of a fluid through solar heat collectors and which removes the sun's heat from the collectors and transports such heat to a location where it may be used or stored;

(20) "Passive solar system" means a system that is capable of collecting or storing the sun's energy as heat without the use of a motor-driven fan or pump; and

(21) "Hybrid solar system" means a system that contains components of both an active solar system and a passive solar system.

Sec. 2. Subsection (b) of section 20-334a of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October 1, 2005*):

(b) The following licenses for solar thermal work may be issued by the department, upon authorization of the examining board for heating, piping, cooling and sheet metal work, under the provisions of section 20-333, including an examination on solar work:

(1) A solar thermal contractor's license may be issued to any person

Substitute House Bill No. 6732

who (A) not later than July 1, 1984, (i) has been issued a P-1, P-3, S-1, S-3, S-5, S-7, D-1 or D-3 license under subdivision (1) of subsection (a) of this section or installs at least six fully operational solar hot water heating systems, and (ii) qualifies for a solar thermal contractor's license under section 20-333, or (B) has served as a solar thermal journeyman for not less than two years.

(2) A solar thermal journeyman's license may be issued to any person who (A) not later than July 1, 1984, (i) is issued a P-2, P-4, S-2, S-4, S-6, S-8, D-2 or D-4 license under subdivision (2) of subsection (a) of this section, and (ii) qualifies for a solar thermal journeyman's license under section 20-333, (B) after July 1, 1984, is issued a P-2, P-4, S-2, S-4, S-6, S-8, D-2 or D-4 license under subdivision (2) of subsection (a) of this section and whose bona fide apprenticeship program includes instruction in solar thermal work, or (C) after July 1, 1984, completes a bona fide solar thermal work apprenticeship program and has not less than two years' experience in solar thermal work. A solar thermal journeyman may work only under the supervision of a licensed solar thermal contractor.

(3) A solar thermal apprentice's permit may be issued for the performance of solar thermal work for the purpose of training. Such work may be performed only under the supervision of a licensed solar thermal contractor or journeyman.

Sec. 3. Section 20-334b of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October 1, 2005*):

Any apprenticeship program established for the purpose of providing education and training for persons seeking licensure for plumbing and piping work or for heating, piping and cooling work shall provide all such persons entering the program with education and training in solar thermal work.

Substitute House Bill No. 6732

Sec. 4. Section 20-340 of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October 1, 2005*):

The provisions of this chapter shall not apply to: (1) Persons employed by any federal, state or municipal agency; (2) employees of any public service company regulated by the Department of Public Utility Control or of any corporate affiliate of any such company when the work performed by such affiliate is on behalf of a public service company, but in either case only if the work performed is in connection with the rendition of public utility service, including the installation or maintenance of wire for community antenna television service, or is in connection with the installation or maintenance of wire or telephone sets for single-line telephone service located inside the premises of a consumer; (3) employees of any municipal corporation specially chartered by this state; (4) employees of any contractor while such contractor is performing electrical-line or emergency work for any public service company; (5) persons engaged in the installation, maintenance, repair and service of electrical or other appliances of a size customarily used for domestic use where such installation commences at an outlet receptacle or connection previously installed by persons licensed to do the same and maintenance, repair and service is confined to the appliance itself and its internal operation; (6) employees of industrial firms whose main duties concern the maintenance of the electrical work, plumbing and piping work, solar thermal work, heating, piping, cooling work, sheet metal work, elevator installation, repair and maintenance work, automotive glass work or flat glass work of such firm on its own premises or on premises leased by it for its own use; (7) employees of industrial firms when such employees' main duties concern the fabrication of glass products or electrical, plumbing and piping, fire protection sprinkler systems, solar, heating, piping, cooling, sheet metal or elevator installation, repair and maintenance equipment used in the production of goods sold by industrial firms, except for products, electrical,

Substitute House Bill No. 6732

plumbing and piping systems and repair and maintenance equipment used directly in the production of a product for human consumption; (8) persons performing work necessary to the manufacture or repair of any apparatus, appliances, fixtures, equipment or devices produced by it for sale or lease; (9) employees of stage and theatrical companies performing the operation, installation and maintenance of electrical equipment if such installation commences at an outlet receptacle or connection previously installed by persons licensed to make such installation; (10) employees of carnivals, circuses or similar transient amusement shows who install electrical work, provided such installation shall be subject to the approval of the State Fire Marshal prior to use as otherwise provided by law and shall comply with applicable municipal ordinances and regulations; (11) persons engaged in the installation, maintenance, repair and service of glass or electrical, plumbing, fire protection sprinkler systems, solar, heating, piping, cooling and sheet metal equipment in and about single-family residences owned and occupied or to be occupied by such persons; provided any such installation, maintenance and repair shall be subject to inspection and approval by the building official of the municipality in which such residence is located and shall conform to the requirements of the State Building Code; (12) persons who install, maintain or repair glass in a motor vehicle owned or leased by such persons; (13) persons or entities holding themselves out to be retail sellers of glass products, but not such persons or entities that also engage in automotive glass work or flat glass work; (14) persons who install preglazed or preassembled windows or doors in residential or commercial buildings; (15) persons registered under chapter 400 who install safety-backed mirror products or repair or replace flat glass in sizes not greater than thirty square feet in residential buildings; and (16) sheet metal work performed in residential buildings consisting of six units or less by new home construction contractors registered pursuant to chapter 399a, by home improvement contractors registered pursuant to chapter 400 or by persons licensed pursuant to this

Substitute House Bill No. 6732

chapter, when such work is limited to exhaust systems installed for hoods and fans in kitchens and baths, clothes dryer exhaust systems, radon vent systems, fireplaces, fireplace flues, masonry chimneys or prefabricated metal chimneys rated by the Underwriter's Laboratory or installation of stand-alone appliances including wood, pellet or other stand-alone stoves that are installed in residential buildings by such contractors or persons.

Sec. 5. (NEW) (*Effective October 1, 2005*) The Electrical Work Board shall recommend regulations consistent with the provisions of sections 20-332 and 21a-7 of the general statutes to establish solar electric contractor and journeyman licenses, for solar electricity work, as defined in section 20-330 of the general statutes, as amended by this act, which shall be adopted by the Commissioner of Consumer Protection, in accordance with the provisions of chapter 54 of the general statutes.

Sec. 6. Subdivision (4) of section 20-419 of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October 1, 2005*):

(4) "Home improvement" includes, but is not limited to, the repair, replacement, remodeling, alteration, conversion, modernization, improvement, rehabilitation or sandblasting of, or addition to any land or building or that portion thereof which is used or designed to be used as a private residence, dwelling place or residential rental property, or the construction, replacement, installation or improvement of driveways, swimming pools, porches, garages, roofs, siding, insulation, [solar energy systems] sunrooms, flooring, patios, landscaping, fences, doors and windows and waterproofing in connection with such land or building or that portion thereof which is used or designed to be used as a private residence, dwelling place or residential rental property or the removal or replacement of a residential underground heating oil storage tank system, in which the

Substitute House Bill No. 6732

total cash price for all work agreed upon between the contractor and owner exceeds two hundred dollars. "Home improvement" does not include: (A) The construction of a new home; (B) the sale of goods by a seller who neither arranges to perform nor performs, directly or indirectly, any work or labor in connection with the installation or application of the goods or materials; (C) the sale of goods or services furnished for commercial or business use or for resale, provided commercial or business use does not include use as residential rental property; (D) the sale of appliances, such as stoves, refrigerators, freezers, room air conditioners and others which are designed for and are easily removable from the premises without material alteration thereof; and (E) any work performed without compensation by the owner on his own private residence or residential rental property.

Approved July 6, 2005